

Title (en)

Concrete pole and method of reinforcing same.

Title (de)

Betonmast und Verfahren zu seiner Verstärkung.

Title (fr)

Mât en béton et procédé pour son renforcement.

Publication

EP 0624700 A3 19950510 (EN)

Application

EP 94303404 A 19940512

Priority

JP 13660393 A 19930514

Abstract (en)

[origin: EP0624700A2] A concrete pole (9) having an improved elasticity by reinforcement of a simple construction is provided. A reinforcing layer (11) of a fibre-reinforced composite material is provided on part of the outer circumference of the concrete pole (9) comprising reinforced concrete. The reinforcing layer (11) covers a depth of at least 30 cm and a height of at least 100 cm relative to the ground level upon burying of the concrete pole (9). Reinforcing fibres (4) of the reinforcing layer (11) are oriented in the axial direction of the reinforced concrete. The total cross-sectional area (SR) and modulus of elasticity (ER) of the reinforcing fibres (4) of the reinforcing layer (11) satisfy the following relational formula relative to the total cross-sectional area (SS) and modulus of elasticity (ES) of the axial reinforcing bar of the reinforced concrete: $\frac{SR}{SS} \geq \frac{ER}{ES}$

IPC 1-7

E04H 12/12

IPC 8 full level

E04G 23/02 (2006.01); **E04H 12/00** (2006.01); **E04H 12/22** (2006.01)

CPC (source: EP US)

E04H 12/2292 (2013.01 - EP US)

Citation (search report)

- [AP] EP 0572243 A1 19931201 - TONEN CORP [JP]
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- [A] DE 8634422 U1 19870226
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DE FR GB

DOCDB simple family (publication)

EP 0624700 A2 19941117; **EP 0624700 A3 19950510**; **EP 0624700 B1 19980114**; CA 2123558 A1 19941115; CA 2123558 C 20010814; DE 69407861 D1 19980219; DE 69407861 T2 19980430; JP 3192277 B2 20010723; JP H06322998 A 19941122; US 5542229 A 19960806

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